

**New receptor type protein which penetrates membrane seven times is JEG62 - useful for d
controlling function of leukocyte**

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Patent Family

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Patent Details

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JP 11032770	A	J	20	C12N-015/09	

Abstract:

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A seven times membrane penetrating type receptor protein JEG62 comprises an amino acid sequence comprising amino acid (1) (or its salt). Also claimed are: (a) a partial peptide of the above protein JEG62 or its salt; (b) a nucleic acid containing a nucleic acid having a base sequence coding the above protein JEG62; (c) a nucleic acid from 12mer to 16mer or higher (especially 20mer or higher) having at least part of gene sequence among the base sequence (2) or (3) and its derivative; (d) a vector containing the above nucleic acid; (e) a seven times membrane penetrating type receptor protein JEG62-expressing transformant carrying the above vector; (f) a method for the preparation of a seven times membrane penetrating type receptor protein JEG62 or its salt in which the above transformant is cultured to form the seven times membrane penetrating type receptor protein JEG62 on the cell membrane of the transformant; (g) a method for the determination of a ligand against the seven times membrane penetrating type receptor protein JEG62 in which the above seven times membrane penetrating type receptor protein JEG62 or its salt or the above partial peptide or its salt is contacted with the compound to be tested; (h) a method for screening a compound inhibiting the combination between a ligand and the above seven times membrane penetrating type receptor protein JEG62 comprising: (i) contacting the ligand with the above seven times membrane penetrating type receptor protein JEG62 or its salt or the above partial peptide or its salt is compared to a case wherein (ii) the ligand and the compound to be tested are contacted with the above seven times membrane penetrating type receptor protein JEG62 or its salt or the above partial peptide or its salt; and (i) an antibody against the above seven times membrane penetrating type receptor protein JEG62 or its salt or the above partial peptide or its salt.

USE - The seven times membrane penetrating receptor type protein is useful in a method for determining a ligand against it and in a method for screening a compound inhibiting the combination between the ligand and the membrane penetrating type receptor (claimed) and is useful for the detection of a drug controlling the function of leukocyte.

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MEMBRANE TYPE RECEPTOR PROTEIN JEG62
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Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new protein controlling a function of leucocyte useful for recovery of infection and tumor by immunoactivation therapy of immunosuppressive autoimmune diseases comprising seven-transmembrane type receptor protein JEG62 having a specific amino acid sequence. **SOLUTION:** The new protein is the seven-transmembrane type receptor protein JEG62(salts) having amino acids sequence practically same to the amino acids sequence expressed in the formula, useful as medicine for curing autoimmune diseases by controlling the function of leucocyte, produces a profitable immune response, cures infection and tumor, decreases a harmful immune response. This protein is obtained by screening cDNA library originating from human Burkitt's lymphoma Raji cell using human seven-transmembrane type receptor protein gene JEG62 fragments as a probe, and integrating the gene in a vector and expressing the host cell. COPYRIGHT: (C)1999,JPO

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